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#2

OIEP

RAW SEQUENCE LISTING

DATE: 07/16/2001

PATENT APPLICATION: US/09/893,321

TIME: 14:12:00

Input Set : A:\LEX-0195-USA SEQLIST.txt

Output Set: N:\CRF3\07152001\I893321.raw

ENTERED

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4 <110> APPLICANT: Walke, D. Wade
5     Friddle, Carl Johan
6     Mathur, Brian
7     Turner, C. Alexander Jr.
9 <120> TITLE OF INVENTION: Novel Human GABA Receptors and
10    Polynucleotides Encoding the Same
13 <130> FILE REFERENCE: LEX-0195-USA
C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/893,321
C--> 15 <141> CURRENT FILING DATE: 2001-06-27
15 <150> PRIOR APPLICATION NUMBER: US 60/214,083
16 <151> PRIOR FILING DATE: 2000-06-27
18 <160> NUMBER OF SEQ ID NOS: 5
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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23 <211> LENGTH: 1398
24 <212> TYPE: DNA
25 <213> ORGANISM: homo sapiens
27 <400> SEQUENCE: 1
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30 gatgaagatg atgaggattt aacggtgaac aaaacctggg tcttggcccc aaaaattcat      180
31 gaaggagata tcacacaaat tctgaattca ttgcttcaag gctatgacaa taaacttcgt      240
32 ccagatatag gagtgaggcc cacrgtaatt gaaactgatg tttatgtaaa cagcattgga      300
33 ccagttgatc caattaatat ggaatataca atagatataa tttttgcccc aacctggttt      360
34 gacagtcggt taaaattcaa tagtaccatg aaagtgcctt tgcttaacag taatatgggt      420
35 ggaaaaattt ggattcctga cactttcttc agaaactcaa gaaaatctga tgctcactgg      480
36 ataacaactc ctaatcgtct gcttcgaatt tggaatgatg gacgagttct gtatactcta      540
37 agattgacaa ttaatgcaga atgttatctt cagcttcata actttcccat ggatgaacat      600
38 tcctgtccac tggaattttc aagctatgga taccctaaaa atgaaattga gtataagtgg      660
39 aaaaagccct ccgtagaagt ggctgacct aaatactgga gattatatca gtttgcatTT      720
40 gtagggttac ggaactcaac tgaaatcact cacacgatct cwggggatta kgttatcatg      780
41 acaatttttt ttgacctgag cagaagaatg ggatatttca ctattcagac ctacattcca      840
42 tgcattctga cagttgttct ttcttgggtg tctttttgga tcaataaaga tgcagtgcct      900
43 gcaagaacat cgttgggtat cactacagtt ctgactatga caacctgag tacaattgcc      960
44 aggaagtctt tacctaaggt ttcttatgtg actgcgatgg atctctttgt ttctgtttgt      1020
45 ttcatTTTTg tttttgcagc cttgatggaa tatggaacct tgcattattt taccagcaac      1080
46 caaaaaggaa agactgctac taaagacaga aagctaaaaa ataaagcctc gatgactcct      1140
47 ggtctccatc ctggatccac tctgattcca atgaataata tttctgtgcc gcaagaagat      1200
48 gattatgggt atcagtgttt ggagggcaaa gattgtgcc gcttcttctg ttgctttgaa      1260
49 gactgcagaa caggatcttg gaggggaagga aggatacaca tacgcattgc caaaattgac      1320
50 tcttattcta gaatattttt cccaaccgct tttgcctgt tcaacttggt ttattgggtt      1380
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53 <210> SEQ ID NO: 2
54 <211> LENGTH: 465
55 <212> TYPE: PRT
56 <213> ORGANISM: homo sapiens
58 <400> SEQUENCE: 2

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59 Met Gly Pro Leu Lys Ala Phe Leu Phe Ser Pro Phe Leu Leu Arg Ser
60 1 5 10 15
61 Gln Ser Arg Gly Val Arg Leu Val Phe Leu Leu Leu Thr Leu His Leu
62 20 25 30
63 Gly Asn Cys Val Asp Lys Ala Asp Glu Asp Asp Glu Asp Leu Thr
64 35 40 45
65 Val Asn Lys Thr Trp Val Leu Ala Pro Lys Ile His Glu Gly Asp Ile
66 50 55 60
67 Thr Gln Ile Leu Asn Ser Leu Leu Gln Gly Tyr Asp Asn Lys Leu Arg
68 65 70 75 80
69 Pro Asp Ile Gly Val Arg Pro Thr Val Ile Glu Thr Asp Val Tyr Val
70 85 90 95
71 Asn Ser Ile Gly Pro Val Asp Pro Ile Asn Met Glu Tyr Thr Ile Asp
72 100 105 110
73 Ile Ile Phe Ala Gln Thr Trp Phe Asp Ser Arg Leu Lys Phe Asn Ser
74 115 120 125
75 Thr Met Lys Val Leu Met Leu Asn Ser Asn Met Val Gly Lys Ile Trp
76 130 135 140
77 Ile Pro Asp Thr Phe Phe Arg Asn Ser Arg Lys Ser Asp Ala His Trp
78 145 150 155 160
79 Ile Thr Thr Pro Asn Arg Leu Leu Arg Ile Trp Asn Asp Gly Arg Val
80 165 170 175
81 Leu Tyr Thr Leu Arg Leu Thr Ile Asn Ala Glu Cys Tyr Leu Gln Leu
82 180 185 190
83 His Asn Phe Pro Met Asp Glu His Ser Cys Pro Leu Glu Phe Ser Ser
84 195 200 205
85 Tyr Gly Tyr Pro Lys Asn Glu Ile Glu Tyr Lys Trp Lys Lys Pro Ser
86 210 215 220
87 Val Glu Val Ala Asp Pro Lys Tyr Trp Arg Leu Tyr Gln Phe Ala Phe
88 225 230 235 240
89 Val Gly Leu Arg Asn Ser Thr Glu Ile Thr His Thr Ile Ser Gly Asp
90 245 250 255
91 Tyr Val Ile Met Thr Ile Phe Phe Asp Leu Ser Arg Arg Met Gly Tyr
92 260 265 270
93 Phe Thr Ile Gln Thr Tyr Ile Pro Cys Ile Leu Thr Val Val Leu Ser
94 275 280 285
95 Trp Val Ser Phe Trp Ile Asn Lys Asp Ala Val Pro Ala Arg Thr Ser
96 290 295 300
97 Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr Leu Ser Thr Ile Ala
98 305 310 315 320
99 Arg Lys Ser Leu Pro Lys Val Ser Tyr Val Thr Ala Met Asp Leu Phe
100 325 330 335
101 Val Ser Val Cys Phe Ile Phe Val Phe Ala Ala Leu Met Glu Tyr Gly
102 340 345 350
103 Thr Leu His Tyr Phe Thr Ser Asn Gln Lys Gly Lys Thr Ala Thr Lys
104 355 360 365
105 Asp Arg Lys Leu Lys Asn Lys Ala Ser Met Thr Pro Gly Leu His Pro
106 370 375 380
107 Gly Ser Thr Leu Ile Pro Met Asn Asn Ile Ser Val Pro Gln Glu Asp

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108 385          390          395          400
109 Asp Tyr Gly Tyr Gln Cys Leu Glu Gly Lys Asp Cys Ala Ser Phe Phe
110          405          410          415
111 Cys Cys Phe Glu Asp Cys Arg Thr Gly Ser Trp Arg Glu Gly Arg Ile
112          420          425          430
113 His Ile Arg Ile Ala Lys Ile Asp Ser Tyr Ser Arg Ile Phe Phe Pro
114          435          440          445
115 Thr Ala Phe Ala Leu Phe Asn Leu Val Tyr Trp Val Gly Tyr Leu Tyr
116          450          455          460

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117 Leu

118 465

120 <210> SEQ ID NO: 3

121 <211> LENGTH: 771

122 <212> TYPE: DNA

123 <213> ORGANISM: homo sapiens

125 <400> SEQUENCE: 3

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127 gtgaggttgg tcttcttggt actgaccctg catttgggaa actgtgttga taaggcagat      120
128 gatgaagatg atgaggattt aacggtgaac aaaacctggg tcttggcccc aaaaattcat      180
129 gaaggagata tcacacaaat tctgaattca ttgcttcaag gctatgacaa taaacttcgt      240
130 ccagatatag gagtgaggcc cacagtaatt gaaactgatg tttatgtaaa cagcattgga      300
131 ccagttgatc caattaatat ggaatataca atagatataa tttttgcccc aacctggttt      360
132 gacagtcggt taaaattcaa tagtaccatg aaagtgccta tgcttaacag taatatggtt      420
133 ggaaaaatth ggattcctga cactttcttc agaaactcaa gaaaatctga tgctcactgg      480
134 ataacaactc ctaatcgctc gcttcgaatt tggaatgatg gacgagttct gtataactta      540
135 agattgacaa ttaatgcaga atgttatctt cagcttcata actttcccat ggatgaacat      600
136 tcctgtccac tggaattttc aagctatgga taccctaaaa atgaaattga gtataagtg      660
137 aaaaagccct ccgtagaagt ggctgatcct aaatactgga gattatatca gtttgcattt      720
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140 <210> SEQ ID NO: 4

141 <211> LENGTH: 256

142 <212> TYPE: PRT

143 <213> ORGANISM: homo sapiens

145 <400> SEQUENCE: 4

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148 Gln Ser Arg Gly Val Arg Leu Val Phe Leu Leu Leu Thr Leu His Leu
149          20          25          30
150 Gly Asn Cys Val Asp Lys Ala Asp Asp Glu Asp Asp Glu Asp Leu Thr
151          35          40          45
152 Val Asn Lys Thr Trp Val Leu Ala Pro Lys Ile His Glu Gly Asp Ile
153          50          55          60
154 Thr Gln Ile Leu Asn Ser Leu Leu Gln Gly Tyr Asp Asn Lys Leu Arg
155 65          70          75          80
156 Pro Asp Ile Gly Val Arg Pro Thr Val Ile Glu Thr Asp Val Tyr Val
157          85          90          95
158 Asn Ser Ile Gly Pro Val Asp Pro Ile Asn Met Glu Tyr Thr Ile Asp
159          100         105         110
160 Ile Ile Phe Ala Gln Thr Trp Phe Asp Ser Arg Leu Lys Phe Asn Ser

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Input Set : A:\LEX-0195-USA SEQLIST.txt

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161	115	120	125
162 Thr Met Lys Val Leu Met Leu Asn Ser Asn Met Val Gly Lys Ile Trp			
163 130 135 140			
164 Ile Pro Asp Thr Phe Phe Arg Asn Ser Arg Lys Ser Asp Ala His Trp			
165 145 150 155 160			
166 Ile Thr Thr Pro Asn Arg Leu Leu Arg Ile Trp Asn Asp Gly Arg Val			
167 165 170 175			
168 Leu Tyr Thr Leu Arg Leu Thr Ile Asn Ala Glu Cys Tyr Leu Gln Leu			
169 180 185 190			
170 His Asn Phe Pro Met Asp Glu His Ser Cys Pro Leu Glu Phe Ser Ser			
171 195 200 205			
172 Tyr Gly Tyr Pro Lys Asn Glu Ile Glu Tyr Lys Trp Lys Lys Pro Ser			
173 210 215 220			
174 Val Glu Val Ala Asp Pro Lys Tyr Trp Arg Leu Tyr Gln Phe Ala Phe			
175 225 230 235 240			
176 Val Gly Leu Arg Asn Ser Thr Glu Ile Thr His Thr Ile Ser Gly Asp			
177 245 250 255			
179 <210> SEQ ID NO: 5			
180 <211> LENGTH: 1568			
181 <212> TYPE: DNA			
182 <213> ORGANISM: homo sapiens			
184 <400> SEQUENCE: 5			
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187 ggtcctttga aagcttttct cttctcccct tttcttctgc ggagtcaaag tagaggggtg 180			
188 aggttggtct tcttgttact gaccctgcat ttgggaaact gtgttgataa ggcagatgat 240			
189 gaagatgatg aggatttaac ggtgaacaaa acctgggtct tggcccaaaa aattcatgaa 300			
190 ggagatatca cacaaattct gaattcattg cttcaaggct atgacaataa acttcgtcca 360			
191 gatataggag tgaggcccac rgtaatgaa actgatgttt atgtaaacag cattggacca 420			
192 gttgatccaa ttaatatgga atatacaata gatataattt ttgcccaaac ctggtttgac 480			
193 agtcgtttta aattcaatag taccatgaaa gtgcttatgc ttaacagtaa tatggttgga 540			
194 aaaatttgga ttcttgacac tttcttcaga aactcaagaa aatctgatgc tcaactggata 600			
195 acaactccta atcgtctgct tcgaatttgg aatgatggac gagttctgta tactctaaga 660			
196 ttgacaatta atgcagaatg ttatcttcag cttcataact ttcccatgga tgaacattcc 720			
197 tgtccactgg aattttcaag ctatggatac cctaaaaatg aaattgagta taagtggaaa 780			
198 aagccctccg tagaagtggc tgatcctaaa tactggagat tatatcagtt tgcatttgta 840			
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206 ctccatcctg gatccactct gattccaatg aataatattt ctgtgccgca agaagatgat 1320			
207 tatgggtatc agtgtttgga gggcaaagat tgtgccagct tcttctgttg ctttgaagac 1380			
208 tgcagaaacag gatcttggag ggaagggaagg atacacatac gcattgccaa aattgactct 1440			
209 tattctagaa tatttttccc aaccgctttt gccctgttca acttggttta ttgggttggc 1500			
210 tatctttact tataaaatct acttcataag caaaaatcaa aagaagtctt gacttaaatt 1560			
211 tcaagtag			1568

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/893,321

DATE: 07/16/2001

TIME: 14:12:01

Input Set : A:\LEX-0195-USA SEQLIST.txt

Output Set: N:\CRF3\07152001\I893321.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date